

Title (en)
ACOUSTIC ACCESS DISCONNECTION SYSTEMS

Title (de)
AKUSTISCHE ZUGANGSÜBERWACHUNGSSYSTEME

Title (fr)
SYSTÈMES ACOUSTIQUES DE DÉCONNEXION D'ACCÈS

Publication
EP 2117625 B2 20160316 (EN)

Application
EP 08727792 A 20080117

Priority
• US 2008051269 W 20080117
• US 67339007 A 20070209

Abstract (en)
[origin: US2008195021A1] An access disconnection system includes: an arterial line; a venous line; a transmitter configured to transmit a sound wave in one of the arterial and venous lines when connected to a patient; a receiver configured to receive the sound wave from the other of the arterial and venous lines when connected to the patient; and electronic circuitry coupled to at least one of the transmitter and receiver, the circuitry configured to send a disconnection output indicative of a change in the sound waves received by the receiver from the transmitter sufficient to expect that an access disconnection of one of the arterial line and venous lines has occurred.

IPC 8 full level
A61M 1/36 (2006.01); **A61M 1/16** (2006.01); **A61M 1/34** (2006.01)

CPC (source: EP US)
A61M 1/14 (2013.01 - US); **A61M 1/3607** (2014.02 - EP US); **A61M 1/3639** (2013.01 - US); **A61M 1/3653** (2013.01 - EP US);
A61M 1/3656 (2014.02 - EP US); **A61M 2205/058** (2013.01 - EP US); **A61M 2205/15** (2013.01 - EP US); **A61M 2205/3306** (2013.01 - EP US);
A61M 2205/3317 (2013.01 - EP US); **A61M 2205/3331** (2013.01 - EP US); **A61M 2205/3344** (2013.01 - EP US);
A61M 2205/3375 (2013.01 - EP US); **A61M 2205/3569** (2013.01 - EP US); **A61M 2205/3592** (2013.01 - EP US); **A61M 2230/04** (2013.01 - EP US)

Citation (opposition)
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US 2008195021 A1 20080814; **US 8152751 B2 20120410**; EP 2117625 A1 20091118; EP 2117625 B1 20121128; EP 2117625 B2 20160316;
EP 2526982 A2 20121128; EP 2526982 A3 20130109; EP 2526982 B1 20140917; ES 2400401 T3 20130409; JP 2010517686 A 20100527;
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US 9089654 B2 20150728; US 9138528 B2 20150922; US 9352078 B2 20160531; US 9950105 B2 20180424; WO 2008100671 A1 20080821

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JP 2013001667 A 20130109; JP 2014164083 A 20140812; JP 2016154221 A 20160805; MX 2009008497 A 20080117;
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